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## Coilin (D2L3J) XP<sup>®</sup> Rabbit mAb



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Applications: W, IF-IC	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P38432	Entrez-Gene Id: 8161		
Product Usage Information		<b>Application</b> Western Blotting Immunofluorescence	(Immunocytochem	istry)		<b>Dilution</b> 1:1000 1:800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Coilin (D2L3J) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total coilin protein.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human coilin protein.						
Background		The nuclear protein coilin (COIL) is found in eukaryotic nucleoplasm and serves a marker for sub- organelles known as Cajal bodies (1,2). Cajal bodies (CB) are nuclear structures that are home to various RNA-processing complexes, including those responsible for pre-mRNA splicing, processing of rRNA and histone pre-mRNA, and telomere maintenance (1-3). The presence of coilin protein is essential for CB formation, and the protein plays a role in maintaining Cajal body structural integrity (4,5). Research studies indicate that coilin binds RNA, including telomerase RNA (hTR), pre-rRNA, and U2 snRNA, in addition to DNA (5). Additional research indicates that coilin protein may exhibit specific RNase activity towards hTR and U2 snRNA transcripts, and that this activity may be regulated through phosphorylation of coilin (6).						
Background Re	eferences	1. Dundr, M. (2012) <i>Curr Opin Cell Biol</i> 24, 415-22. 2. Lam, Y.W. et al. (2002) <i>Mol Biol Cell</i> 13, 2461-73. 3. Andrade, L.E. et al. (1991) <i>J Exp Med</i> 173, 1407-19. 4. Hebert, M.D. (2013) <i>Int J Biochem Cell Biol</i> 45, 1314-7. 5. Broome, H.J. and Hebert, M.D. (2012) <i>PLoS One</i> 7, e36300. 6. Broome, H.J. et al. (2013) <i>Biol Open</i> 2, 407-15.						
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	ey	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	у Кеу	H: Human Mk: Monkey						
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